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* THIS MONTH:                        *
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*                                    *
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* NEXT MEETING DATE:   5/11/88       *
* ---------------------------------  *
* Send all contributions by the      *
* first day of the month to:         *
*                                    *
*    Bill Heberlein                  *
*    Editor                          *
*    SMUG BYTES                      *
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*    Milwaukee, WI 53225             *
*                                    *
**************************************
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   - 251 5291
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Meeting on 4th Wed. of the month.
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Meeting date see Spectrum group.

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Bill on MSCRIPT

As I said last month I wanted to back up my print page but my printer, the Gemini 10X, doesn't have the capability. Well I found a good deal on the Star NX-15, which does have the capability and also has a 15" carrage, so this issue is printed on the new printer.

Some of the printer codes required some changes to my old printer codes. Also the overflow from page to page did not work. After two days I got it working. Now no more "cut and paste" for the columns of the newsletter. The secret was to change the page length to 66 and the page spacing to 0. I now have to count 66 lines myself to get page overflow but it works!

Tune in next month.

"SQ" NOTES
BY R.A.HILSMANN

This month I have a new program for you, something which I had been working on in the past, but put aside after seeing a program called "DOSDEX" published in January's TS-2068 UP-DATE. It looked like someone had done the job already. After taking a closer look at DOSDEX the other week, I found that DOSDEX was not what I had in mind. so here is the "DISK LIBRARY"

DISK LIBRARY will not just list programs for LOAD, it will do a lot more, as you will notice. It's MENU driven, and should be easy to use. I hope when I reentered it, making changes as I went along, I did not enter to many bugs. I have checked it as much as I could in the short time I had to get it ready for SMUG BYTES. So watch the next issues of this News-Letter for updates.

Below is a screen copy of the menu, which should give you a good idea of what this program will do, especially #9, which should help me clean up my Disk Garbage that has accumulated over the years.

Sorry about the sorting, it's in basic, maybe I will write a sorting routine in MC. Again, watch this column for further updates.

```
    DISK LIBRARY FILE: LIBR #1
********************************
1) FIND & LOAD A PROGR. IN LIBR.

2) LIST & LOAD PROGR. IN LIBRARY

3) ENTER A DISK TO THE LIBRARY

4) DELETE A DISK IN THE LIBRARY

5) UPDATE A DISK IN THE LIBRARY

6) SORT LIBRARY FILES (ALPHA)

7) LOAD OR SAVE LIBRARY DATA

8) LIST LIBRARY FILES TO PRINTER

9) CREATE NEW DISK FROM FILES
_____

CAPACITY 800   >0   FILES ENTERED

>>>>>>>>> ENTER 1 TO 9 <<<<<<<<<
```

```
10 REM 1        TYPE THIS LINE
       2        FOR MACHINE CODE
TO HERE>3
   15 REM
       ************************
       * DISK LIBRARY PROGRAM *
       * BY R.A.HILSMANN      *
       * ©1988 IMPEX SOFTWARE *
       * FOR PUBLIC DOMAIN    *
       ************************

   20 CLEAR : LET A=NOT PI: DIM A
$(179,20): DIM L$(10): DIM B$(32
): DIM C$(608): DIM K$(6,5): LET
 K$(1)="BASIC": LET K$(2)="DATA#
": LET K$(3)="DATA$": LET K$(4)=
"CODE ": LET K$(5)="STATE": LET
K$(6)="VRBLS": INK 9: PAPER 1: B
ORDER 1: LET E=PEEK 23635+256*PE
EK 23636+5
   30 CLS : GO SUB VAL "70": LET
F=0: PRINT AT 8,0;"PRESS ONE (1)
 FOR NEW LIBR. FILE"'"ZERO (0)
TO LOAD EXCISTING FILE ": PAUSE
NOT PI: IF INKEY$="1" THEN GO TO
 VAL "40"
   35 INPUT "ENTER NAME OF LIBRAR
Y FILE"'D$: LOAD /D$ DATA E$():
 GO TO 50
   40 DIM E$(801,32): LET E$(801,
 TO 3)=STR$ 1: INPUT "ENTER NAME
 OF NEW LIBRARY FILE"'D$: LET E
$(801,4 TO 13)=D$
   50 CLS : GO SUB VAL "80": GO S
UB VAL "70": PRINT AT 0,6-INT (L
EN D$/2);"DISK LIBRARY FILE: ";E
$(801,4 TO 13)'"****************
******************"'"1) FIND & LOA
D A PROGR. IN LIBR."''"2) LIST &
 LOAD PROGR. IN LIBRARY"''"3) EN
TER A DISK TO THE LIBRARY"''"4)
DELETE A DISK IN THE LIBRARY"''"
5) UPDATE A DISK IN THE LIBRARY"
''"6) SORT LIBRARY FILES (ALPHA)
"''"7) LOAD OR SAVE LIBRARY DATA
 "''"8) LIST LIBRARY FILES TO PR
INTER"
   60 PRINT '"9) CREATE NEW DISK
FROM FILES"'"
"''"CAPACITY 800   >
";Y;TAB 18;" FILES ENTERED": PRI
NT #0;">>>>>>>>> PRESS 1 TO 9 <<
<<<<<<": PAUSE 0: GO TO (CODE I
NKEY$-48)*1E3
   70 BEEP .08,35: RETURN
   80 LET Y=VAL E$(801, TO 3)-1:
RETURN
   100 PRINT " ENTER ZERO (0) TO E
XIT TO MENU
    ": RETURN
1000 GO SUB 80: CLS : GO SUB 100
: GO SUB 70: INPUT "ENTER NAME O
F PROGRAM "'F$: IF F$="0" THEN G
O TO VAL "50"
1010 FOR /1 TO Y: IF E$(A,1 TO L
EN F$)=F$ THEN GO TO 1030: NEXT
: CLS : GO SUB 70: PRINT AT 10,2
;"PROGRAM CAN NOT BE LOCATED"''
: GO SUB 90: PAUSE 0: GO TO VAL
"50"
1020 NEXT : CLS : GO SUB 70: PRI
NT AT 10,2;"PROGRAM CAN NOT BE L
OCATED"''': GO SUB 90: PAUSE 0:
GO TO VAL "50"
```

```
1030 CLS : GO SUB 70: PRINT AT 1
0,0;E$(A, TO 10)'''"ON DISK: ";E$
(A,12 TO 31)'''" TO LOAD INSERT
ABOVE NAMED DISK INTO APPROPIATE
 DRIVE"'''"NOW PRESS ENTER TO LOA
D OR "'''"ANY OTHER KEY TO RETURN
 TO MENU": PAUSE 0: IF CODE INKE
Y$=13 THEN GO TO VAL "2150"
1040 GO TO VAL "50"
2000 CLS : PRINT "1=PAGING * ENT
ER=LOAD *ZERO=EXITFILE-NAME TYP
E  DISK-NAME"'"*****************
**************": GO SUB 80: LET
F=Y: GO TO VAL "2070"
2010 LET G=3: LET H=1: FOR /I TO
 J: PRINT AT G,0: INVERSE 1: OVE
R 1;B$: PAUSE 0: LET Q=CODE INKE
Y$: IF Q=13 THEN GO TO VAL "2150
"
2020 IF Q=48 THEN GO TO VAL "50"
2030 IF Q=49 THEN LET A=J+1: LET
 K=K+380: GO SUB 2160: GO SUB 20
50: GO TO 2130
2040 PRINT AT G,0; INVERSE 0;B$:
 GO SUB 2110: NEXT
2050 PRINT AT 3,0;C$: IF A>F THE
N RANDOMIZE USR E: GO TO 2070
2060 RETURN
2070 GO SUB 70: LET I=2: LET J=1
2080 PAUSE 2: LET G=3: LET H=NOT
 PI: IF F-I>=18 THEN LET J=J+19:
 GO TO 2100
2090 LET J=F+1
2100 LET K=PEEK 23376+256*PEEK 2
3377: FOR /I TO J
2110 IF F THEN PRINT AT G,0;E$(A
-1, TO 10);TAB 11;K$(1+CODE E$(A
-1,11));TAB 17;E$(A-1,12 TO 26):
 LET G=G+1: IF H THEN RETURN
2120 NEXT : GO SUB 2160: GO SUB
2010
2130 IF A-1<=F THEN LET I=A
2140 GO TO VAL "2080"
2150 INPUT "INSERT DISK & ENTER
DRIVE NO.>";K: LET /D=K-VAL "1":
 LET L$=E$(A-1, TO 10): GO TO 21
50+CODE E$(A-1,11)+1
2151 LOAD /L$: STOP
2152 LOAD /L$ DATA A(): STOP
2153 LOAD /L$ DATA B$(): STOP
2154 LOAD /L$CODE : STOP
2155 LOAD /L$ABS
2156 LOAD /L$VAL : STOP
2160 POKE 23376,K-256*INT (K/256
): POKE 23377,INT (K/256): RETUR
N
3000 CLS : GO SUB 70: GO SUB 100
: PRINT '''"INSERT DISK TO BE AD
DED TO THE"'''"LIBRARY INTO APPRO
PRIATE DRIVE"'''"AND ENTER THE DR
IVE NUMBER BELOW"''''"THIS PROGR
AM WILL CATALOG THE"'''"DISK, PRE
SS ANY KEY WHEN THE"'''"PROGRAM A
SKS YOU TO SCROLL": INPUT "DRIVE
 # >";K: IF K=0 THEN GO TO VAL "
50"
3010 LET /D=K-1: CAT : LET F=USR
 E: GO SUB 3030: CLS : GO SUB 70
: GO SUB 100: PRINT AT 8,0;"DISK
 TO BE ADDED TO THE LIBRARY"''''
"DISKNAME: ";A$(178)'"FORMATED T
O ";CODE A$(179,1);" TRKS, ";COD
E A$(179,2);" SIDES"'"CAPACITY "
;CODE A$(179,3)*5;" K"'"REMAININ
G DISK SPACE: ";CODE A$(179,5)*5
;" K"'''"PRESS ANY KEY TO ADD DI
SK TO THEDISK-LIBRARY": PAUSE 0:
 IF INKEY$="0" THEN GO TO VAL "5
0"
```

```
3020 FOR /Y TO Y+F-1: LET E$(A,
 TO 11)=A$(A-Y+1, TO 11): LET E$(
A,12 TO 31)=A$(178): NEXT : LET
E$(801, TO 3)=STR$ A: GO TO VAL
"50"
3030 GO SUB 80: LET Y=Y+1: FOR /
1 TO Y: IF E$(A,12 TO 31)=A$(178
) THEN CLS : PRINT AT 10,0;"DISK
 ALREADY PRESENT IN LIBRARY"'''
GO SUB 100: PAUSE 0: GO TO VAL "
50"
3040 NEXT : RETURN
4000 CLS : GO SUB 70: GO SUB 100
: LET B=0: INPUT "ENTER NAME OF
DISK TO BE DELETED"'''F$: IF F$
="0" THEN GO TO VAL "50"
4010 PRINT AT 10,0;"DELETING DIS
K ";F$: GO SUB 80: FOR X=1 TO Y
4020 IF E$(X,12 TO 12+LEN F$-1)=
F$ THEN GO SUB 4050: LET A=A-1:
LET Y=Y-1: LET E$(801, TO 3)=STR
$ (Y+1): GO TO VAL "4020"
4030 NEXT X: IF B THEN RETURN
4040 GO TO VAL "50"
4050 FOR /X TO Y: LET E$(A)=E$(A
+1): IF A=800 THEN : IF E$(A,12
TO 12+LEN F$)=F$ THEN LET E$(A)=
""
4060 NEXT : RETURN
5000 CLS : GO SUB 70: GO SUB 100
: PRINT AT 8,0;"INSERT DISK INTO
 DRIVE THEN "'''"ENTER DRIVE NUMB
ER BELOW": INPUT "DRIVE # >";K:
IF K=0 THEN GO TO VAL "50"
5010 LET D=K-1: INPUT "ENTER NAM
E OF DISK TO BE UPDATED"'''F$:
LET B=1: GO SUB 4010: CAT : LET
F=USR E: GO TO VAL "3020"
6000 CLS : GO SUB 100: GO SUB 70
: PRINT AT 10,10;"SORTING"'''"THI
S MAY TAKE A WHILE (BASIC!!!)":
GO SUB 80: LET S=1
6010 LET S=S*2: IF S<=Y THEN GO
TO 6010
6020 LET S=INT (S/2): IF S=0 THE
N GO TO VAL "50"
6030 FOR /1 TO Y-S: LET K=A
6040 LET B=K+S: IF E$(K)<=E$(B)
THEN GO TO 6060
6050 LET F$=E$(K): LET E$(K)=E$(
B): LET E$(B)=F$: LET K=K-S: IF
K>0 THEN GO TO 6040
6060 IF INKEY$="0" THEN GO TO VA
L "50"
6070 NEXT : GO TO 6020
7000 CLS : GO SUB 70: GO SUB 100
: INPUT " TO OR FROM WHICH DRIVE
 ARE YOU"'''"SAVING OR LOADING DA
TA ?";K: IF K=0 THEN GO TO VAL "
50"
7010 LET /D=K-1: INPUT "ENTER ""
L"" FOR LOADING"''"        ""S"" FO
R SAVING"''''F$: IF F$="L" OR F$
="l" THEN GO TO 7040
7020 CLS : PRINT AT 10,0;"NAME O
F DATA TO BE SAVED IS:"''''"
";E$(801,4 TO 13): INPUT "DO YO
U WISH TO CHANGE THE NAME?"''"(Y
/N)";F$: IF F$="Y" OR F$="y" TH
EN INPUT "ENTER NEW NAME ";F$: L
ET E$(801,4 TO 13)=F$
7030 SAVE /E$(801,4 TO 13) DATA
E$(): GO TO VAL "50"
7040 LET /D=K-1: PRINT AT 10,0;"
ENTER NAME OF DATA TO BE LOADED"
'''"OR TOKEN 'CAT' FOR CATALOG":
INPUT "NAME OR CAT ";F$: IF F$="
 CAT " THEN CAT : GO TO 7040
7050 LOAD /F$ DATA E$(): GO TO V
AL "50"
```

```
8000 CLS : GO SUB 70: GO SUB 100
: PRINT AT 8,0;"ARE YOU LISTING
TO A CENTRONIC"''"TYPE PRINTER ?
? (Y/N)": PAUSE 0: IF INKEY$="0"
 THEN GO TO VAL "50"
8010 IF INKEY$="Y" OR INKEY$="y"
 THEN GO TO VAL "8030"
8020 CLS : GO SUB 80: FOR /1 TO
Y: LPRINT E$(A, TO 10);TAB 11;K$
(1+CODE E$(A,11));TAB 17;E$(A,12
 TO 26): NEXT : GO TO VAL "50"
8030 LET /P=0/G: REM PRINTER COD
ES HERE
8040 CLS : GO SUB 80: FOR /1 TO
Y: LPRINT TAB 2;E$(A, TO 10);TAB
 14;K$(1+CODE E$(A,11));TAB 20;E
$(A,12 TO 31);
8050 IF A<Y THEN LPRINT TAB 42;E
$(A+1, TO 10);TAB 54;K$(1+CODE E
$(A+1,11));TAB 60;E$(A+1,12 TO 3
1): LET A=A+1: NEXT
8060 GO TO VAL "50"
9000 CLS : GO SUB 70: GO SUB 100
: PRINT AT 6,0;"THIS FEATURE REQ
UIRES TWO DRIVES"''"DRIVES HAVE
TO BE IN LOGICAL     ORDER (1 TO
 2) OR (4 TO 1) ETC."''"INSERT BL
ANK DISK INTO DRIVE IF YOU WISH
TO FORMAT A NEW DISK"
9010 PRINT ''''"ENTER DRIVE NUMBE
R FOR FORMAT ORPRESS ENTER TO SK
IP FORMATING": INPUT "DRIVE NUMB
ER (1 TO 4) OR <ENTER> ";F$: IF
 F$="0" THEN GO TO VAL "50"
9020 IF F$="" THEN GO TO 9050
9030 CLS : LET K=VAL F$: PRINT A
T 8,2;"DISK WILL BE FORMATED NOW
"''"INSERT NEW DISK INTO DRIVE "
;K: LET /D=K-1: INPUT "ENTER NAM
E FOR NEW DISK"''F$
9040 PRINT AT 10,0;"IF DISK IS I
N DRIVE "; FLASH 1;K; FLASH 0;"
THEN PRESSENTER AND FORMATING WI
LL BEGIN": PAUSE 0: FORMAT /F$:
PAUSE 100
9050 CLS : GO SUB 70: INPUT "ENT
ER DRIVE NUMBER FOR SOURCE    DI
SK (1 TO 4) ",K: GO SUB 70: INPU
T "ENTER DRIVE NUMBER FOR
     DESTINATION DISK (1 TO 4) ";
S: LET S=S-1: LET /D=K-1
9100 CLS : PRINT "1=PAGING * ENT
ER=MOVE *ZERO=EXITFILE-NAME  TYP
E   DISK-NAME"'"*****************
****************": GO SUB 80: LET
F=Y: GO TO VAL "9170"
9110 LET G=3: LET H=1: FOR /I TO
 J: PRINT AT G,0; INVERSE 1; OVE
R 1;B$: PAUSE 0: LET Q=CODE INKE
Y$: IF Q=13 THEN GO SUB VAL "925
0"
9120 IF Q=48 THEN GO TO VAL "50"
9130 IF Q=49 THEN LET A=J+1: LET
 K=K+360: GO SUB 9260: GO SUB 91
50: GO TO 9230
9140 PRINT AT G,0; INVERSE 0;B$:
 GO SUB 9210: NEXT
9150 PRINT AT 3,0;C$: IF A>F THE
N RANDOMIZE USR E: GO TO 9170
9160 RETURN
9170 GO SUB 70: LET I=2: LET J=1
9180 PAUSE 2: LET G=3: LET H=NOT
PI: IF F-I>=17 THEN LET J=J+18:
 GO TO 9200
9190 LET J=F+1
9200 LET K=PEEK 23376+256*PEEK 2
3377: FOR /I TO J
9210 PRINT AT G,0;E$(A-1, TO 10)
;TAB 11;K$(1+CODE E$(A-1,11));TA
B 17;E$(A-1,12 TO 26): LET G=G+1
: IF H THEN RETURN
```

```
9220 NEXT : GO SUB 9260: GO SUB
9110
9230 IF A-1<=F THEN LET I=A
9240 GO TO VAL "9180"
9250 INPUT "INSERT SOURCE DISK A
ND <ENTER>";L$: LET L$=E$(A-1, T
O 10): GO TO 9250+CODE E$(A-1,11
)+1
9251 MOVE /L$ TO S: RETURN
9252 MOVE /L$ DATA TO S: RETURN
9253 MOVE /L$ DATA $ TO S: RETUR
N
9254 MOVE /L$CODE TO S: RETURN
9255 MOVE /L$ABS TO S: RETURN
9256 MOVE /L$VAL TO S: RETURN
9260 POKE 23376,K-256*INT (K/256
): POKE 23377,INT (K/256): RETUR
N
9350 REM INITIALIZE PROGRAM WITH
      "RUN 9400" THEN
      DELETE LINE 9350 TO END

9400 RESTORE 9500: FOR X=23760 T
O 23760+63: READ B: POKE X,B: NE
XT X: POKE 23756,0
9500 DATA 205,10,0,42,75,92,17,1
4,0,25,235,33,32,38,1,212,13,237
,176,33,16,38,14,16,237,176,229,
235,17,4,0,25,235,33,0,38,14,16,
237,176,225,17,20,0,62,128,190,4
0,4,3,25,48,249,42,75,92,17,42,0
,25,34,80,91,223
```

Now what. Just following the prompts will keep you out of trouble I hope, but here a few hints to get you started.
Initialize the program after you have it all entered with "RUN 9400", this will put the machine code into the REM line and also change line 10 to line 0, this is the same machine code you'll find in the menu loader, but shorter, it's almost the same code as used in another famous menu loader, sorry, but there is only one way to do it. As they say in Wisconsin; "there is only one way to milk a cow, you have to...." But thats another story.
Make sure the DATA line is entered correctly, otherwise you may get a crash when you run the program. Be sure you save the program before you run it.

Option 3)
Will add a diskfile to the library.

Option 4)
Will delete all files with the same disk-name of your choice (in the library only of course).

Option 5)
Will update a disk file by deleting it first and then reloading the new diskfile.

Option 1)
Will search for a given program name and give you the option to load same program.

Option 2)
If in doubt about the name of a program, this option will list the disk library files, and lets you load the program after you located it.

Option 6)
Will sort all disk files into alphabetic order. This may take a while, depending on the size of the file, so be prepared, have a Beer, or go play 9 holes of golf. Nah, not quite that bad, but it's basic alright.

Option 7)
Will give you the choice of either loading or saving library data.

Option 8)
Will Lprint all files to either the Timex 2040 or a Centronic type printer. On line 8030 you may enter any printer codes you prefer.

Option 9)
Tired of the slush on your disks, take a new disk, put it into one of your drives (two are needed), hit 9, and presto, you may now scroll through all the files pressing enter to move one, two, or twenty programs, data etc. on to a new disk. Yes you could make some disks for all the slush too. This option could prove to be the answer to the missing delete command on Oligers system, dont delete, regenerate. Still the best system around though, (geez I would hate to use "Print #4").
    This program has been written for your 2068 being in the SPECTRUM MODE, utilizing the SDOS system by JOHN OLIGER. Diehard Timex fans

will have to change Line 9400, to read; RESTORE 9500: FOR X=26715 TO 26715+63: READ B: POKE X,B: NEXT X: POKE 23711,0

    To use this program RUN it. If you have data present, and the program should give you an error report, GO TO 50, gets you back to the MENU. If your moving data from disk to disk and have the wrong disk in a drive will give you an error too, enter CONTINUE after inserting the right disk.

    If your too tired or lazy to enter this program yourself, send $ 5 for postage & handling to... R.A. Hilsmann * P.O. BOX 45 Menomonee Falls,Wi. 53051, and I will send you a Cassette.   ##

ADDENDUM'S * FIXES (BLOOPERS)

    Last month I added paging to the Menu Program which I published some time ago, but files are not paged in correct order after one moves the cursor down and then hits the paging key. Change line 35, to read "IF Q=49 THEN LET A=J+1:". Also add to line 70 a PAUSE statement to prevent the cursor from scrolling past the first item on the next page when scrolling through a page. 70 PAUSE 2: LET G=3: Also IF F-I>= 18 THEN LET J=J+18:..to LET J=J+19.

    Well that's it for now, next month I will give you another goody. A program I was forced to write, because I accidentally started formating the wrong disk, while debugging this program.
    It will not restore a totally wiped out disk nor does it restore a disk, period, but it will let you retrieve intact data on a disk.

            Till next month # 3

The PC8300 Computer
by Dr. Lloyd Dreger

Ah so, the TS1000/ZX81 has a clone, and like all good clones it comes from the Orient-Hong Kong to be exact, complete with a Chinese manual. No, you really don't have to learn Chinese to read the manual as all the examples should be quite familar to the TS1000 ZX81 user as they are directly from that computer's manual. Other than the additional commands and the appendixes if you do machine code, you can use your TS/ZX manual. It might be a computer built by the Chinese but it still functions with only good old English commands. Imagine those poor Chinese having to learn English to use the PC8300. In fact, somebody has already written an English version of the manual. Well, for $24.95 it's still the cheapest computer available.

Ihave read all the articles written on the PC8300 so far and everyone is missing the point of writing an article. IT CAN BE USED BY AMERICANS. Yes, the 16k RAM pack and the 2040 thermal printer are completely compatible. No, the 64k Memoteck RAM is't compatible. In addition, you get a rubberized keyboard and each key giving a distinct tone when pressed. No, you don't have to hunt for the right token key to press but merely type out all the keywords when you enter a line. You can skip all the spaces between words as the PC8300 parser will sort them out and tokenize them for you. Sorry, but it still is only one command to a line.

In addition you get outputs for both the TV (channels 3 & 4) and a monitor. You also get a joystick plug but as far as I can surmise no way of using it as there is no BASIC programable STICK command. A quick look at the appendix of the Chinese manual shows that they have shifted some of the tokens to different values which means that using TS1000/ZX81 programs directly is going to run into problems-unless you edit down those

lines containing these keywords and reenter them before trying to run programs. Of course any machine code calling ROM routines isn't going to run as well. That in essence is what other articles talked about.

One very important thing everyone forgot to mention is that although the PC8300 requires the sane power as the TS1000/ZX81 and even uses the same type of jack they have reversed the polarity of the terminals so that if you accidently plug your old power supply into the PC8300 its goodbye computer.
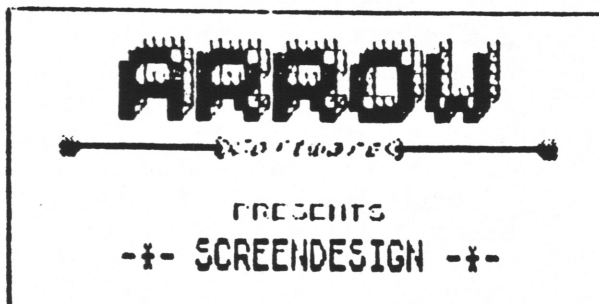
Nobody mentioned the fact that we no longer have to deal with a squished floating screen when running short of memory. Machine code writers will remember that the Dfile was in back of the Basic program listing so as the program length changed so did the starting address of the screen. Then when you had less then 3.5k of memory, the display used only the minimum amount of space by taking out all the unused bytes. The PC8300 still comes with the 2k of memory that we knew with the TS1000. The Display file starts where the Basic program used to start and is followed by the Basic program at 17302. This, if you use code in line 1 of a Basic listing it would start at 17307. However, RAMTOP can be lowered, together with the hanging stack pointer so that code could be poked above ramtop as in the 2068. Unfortunately, no means can be used to save such code to tape.

Several other things are changed as well. The error codes are no longer numbered but two character abbreviations of what they are which makes it easier to memorize than the numbers. I guess they expect the Chinese to play Space Invaders as some of the gray scale graphics have given way to these monsters and some diagonal graphics instead. It's a shame as these monsters have no meaning in

serious computering. Also, the ? and apostrophe are also gone while the #, %, @ and & are still missing. Several new commands have been added. Line No. allows for automatic line numbering. Beep and Nobeep are for the sound together with Sound, Music and Tempo. Dispite Chinese, the manual is explicit enough to learn these commands with ease.

Saving and loading programs no longer has the helpful lines across the screen to help adjust the volume of your tape recorder which is a handicap.

I have not fully disassembled the ROM as yet but with these changes it has been extensively revised. Very little is the same and everything is revised. Nothing is in the same location. Just the parsing of the edit line would take extensively more memory. The new command would also take some more memory. Dispite this there is still 500 bytes of unused ROM in that first 8k.

All in all, the PC8300 is a definite improvment over the old TS1000 and the ZX81, and just imagine if it catches on in China. With 4 times as many peoples as the US, and all of them learning English computering, they could well catch up in no time at all. We really didn't completely exhaust all the possibilities of the old ZX81 before the 2068 came along and almost everyone switched. With the new keyboard and some adaptations of old peripherals it could have a come back.

FROM THE PRES.

There is another computerfest happening nearby. The Cleveland group is sponsering one August 26 & 27. For more on this see the SLUG newsletter.

Ham and Computer fests comming up Sat. May 7, Circle B Recreation Center, Cedarburg Hy 60 & County I Saturday May 14, Manitowoc county Expo, Manitowoc 8am — ?

S. N. U. G.
Sinclair Northamerica Users Group

During one of the organizational
meetings of the recent Sunstate
Timex/Sinclair Winterfest '88, the
idea of a National organization for
the advancement of Sinclair
computing came up. It was decided
that since we had developed a "core
group" that was dedicated to
promoting Sinclair computing, we
would attempt to lay the groundwork
for such an organization. It was
also mentioned that the greater the
amount of time from the departure
of Timex from the computer
industry, the less of an active
market would result. Since we would
have users from across the nation
at the fest, it would be an ideal
time to make our plans known. So,
the Sinclair Northamerica Users
Group, or SNUG (a name submitted to
us by John Cushran, and later
modified by Bill Jones) was
starting to come closer to reality.

WHAT IT IS

The intent of SNUG is to provide a
forum for exchange of ideas. It
would be a source of information,
such as a listing of active
members, active Users Groups,
Sinclair specific Bulletin Boards,
and active library of Public Domain
software, and a listing of
available shareware and freeware.
Later on we hope to propose an
industry wide standard of hardware
and software compatability. So as
not to have to reinvent the wheel,
and to do this in the shortest
amount of time, we going to try and
use an already established National
group, such as CORSA (Corvair
Owners Assn.) as a model to base
our group on. SNUG would act as an
umbrella Organization, with Regions
being developed to tie in with
established groups in those areas.

WHAT IT ISN'T

It is the intent of the organizers
NOT to infringe or supercede any
already established User Group or
Vendor. It is intended to show some
strength to the industry that
Sinclair is not dead, and the mere
fact that we can get this
Organization together will prove
that we can stick together and grow
and prosper. We look at this as an
enhancement to activities that have
been planned on. Hopefully a
Northamerican Calendar of events
could be established to help
co-ordinate any future plans and
events. It is not designed to take
anything away from anyone.

WHAT TO DO

We need the support of EVERY SINGLE
SINCLAIR USER ! Whether you reside
in Canada, the U.S., Mexico or for
that matter anywhere, we need to
know how you feel and what you want
in this Organization. This is your
opportunity to be heard ... your
comments, critisms, complaints, or
praises. What we have here is
nothing more than an idea. Nothing
at this time is set in concrete. We
are more than open to suggestions.
To make it work, these ideas of
yours have to be forwarded
immediately. We are putting on a
time limit until June 30, 1988. If
there is no support, then we will
not proceed further. If there is
input, we will update on a monthly
basis to whoever will put the
information in print. So, lets hear
from you soon!

Temporary contact for information-
Mel Nathanson, 7515 Arbordale Dr.,
Port Richey, Florida 34668.
     (813) - 863 - 5552

There it is! The man in your program that caused all of those problems!

NICE TRY GUYS, BUT THIS TIME I DIDN'T MARK THE EXIT.

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